



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,472	01/31/2002	Sara Lynn Leslie	SLA 1128	3534

7590

04/06/2006

David C. Ripma
Patent Counsel
Sharp Laboratories of America, Inc.
5750 NW Pacific Rim Boulevard
Camas, WA 98607

EXAMINER

HANG, VU B

ART UNIT

PAPER NUMBER

2625

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/066,472	Applicant(s) LESLIE, SARA LYNN	
	Examiner Vu B. Hang	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 January 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 10 and 12-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 10 and 12-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/31/02, 03/18/04</u> | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Estavillo et al. (US Pub. 2002/0046238 A1) in view of Simpson et al. (US Pub. 2003/0007171 A1).

Regarding **Claim 1**, Estavillo discloses requesting from a computer connected printer a pre-printing screen display preview of a document which has been sent by the computer to that printer (see paragraph [0055-0056]), generating in the printer a collection of print control data which exactly defines how the document that has been sent to the printer will look when printed and which will be employed by the printer to print the document (see paragraph [0057], Line 5-17), communicating the print control data collection to the screen display device, and on the basis of the communicating, displaying on the screen in the screen display device an exact visual preview of the subject document (see paragraph [0057], Line 8-17). Estavillo fails to expressly disclose implementing via a path which enables a user selection of selectable printing options relating to print appearance and protocol, and enabling the user selection of one or more of such options to be included in the print preview request. Simpson, however, discloses the user selection of multiple selectable printing options relating to print appearance and protocol, and the print preview display of the subject document affected by the selected options (see Fig.3A and paragraph [0041]).

Estavillo and Simpson are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art to include the user selection of multiple selectable printing options relating to print appearance and protocol, and the print preview display of the subject document affected by the selected options. The motivation for doing so would be to enable the user to make adjustments relating to the appearance of the subject documents to be printed, along with providing the option to select the subject document and its associated print control data from a predetermined location and sending the document and the control data to a destination printer.

Regarding **Claim 10**, Estavillo discloses from a document creating application in the computer structure, creating a document (see paragraph [0054], Line 6-7), and with reference to the created document, sending a set of related document printing instructions from the computer to the printer (see paragraph [0053], Line 6-8), in association with the sending, requesting from the printer a print-preview display (see paragraph [0053], Line 6-8), in the printer, on the basis of such sent instructions, generating a collection of document print control data which the printer will directly use to print the created document, and in response to the print-preview display request, sending back to the computer structure a print-preview data stream based exactly upon the print control data collection, and through cooperative interaction between the computer structure and the screen display device, creating on the screen-display device from that sent back data stream a true-print-preview display which exactly shows what the printer will print from the associated, underlying print control data collection (see paragraph [0057], Line 4-17). Estavillo fails to expressly disclose implementing via a path which enables a user selection of selectable printing options relating to print appearance and protocol, and enabling the user selection of one

or more of such options to be included in the print preview request. Simpson, however, discloses the user selection of multiple selectable printing options relating to print appearance and protocol, and the print preview display of the subject document affected by the selected options (see Fig.3A and paragraph [0041]).

Estavillo and Simpson are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art to include the user selection of multiple selectable printing options relating to print appearance and protocol, and the print preview display of the subject document affected by the selected options. The motivation for doing so would be to enable the user to make adjustments relating to the appearance of the subject documents to be printed, along with providing the option to select the subject document and its associated print control data from a predetermined location and sending the document and the control data to a destination printer.

Regarding **Claim 12**, Estavillo further discloses wherein the printer includes an integrated controller and a print engine, the controller functions to receive and interpret such sent document printing instruction, and to generate, and ultimately send to the print engine, the mentioned print control data collection, and the sent back print-preview data stream is directly derived from the controller-generated data collection (see paragraph [0026], Line 3-7).

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Estavillo et al. (US Pub. 2002/0046238 A1) in view of Simpson et al. (US Pub. 2003/0007171 A1), and in further view of Livingston (US Patent 6,621,590 B1).

Regarding **Claim 13**, Estavillo and Simpson disclose the method of Claims 10 and 12 but fail to expressly disclose the user requesting of storage capture of controller generated data in a

data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. Livingston, however, discloses the saving/storing and retrieving of the controller-generated data (see Fig.3A and Col.2, Line 12-33).

Estavillo, Simpson and Livingston are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art to include the user requesting of storage capture of controller generated data in a data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. The motivation for doing so would be to enable the user to select from among a plurality of stored controller generated data to carry out the printing process. This would benefit a user who prefers reusing a certain set of controller-generated data for the printing process.

Claims 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Estavillo et al. (US Pub. 2002/0046238 A1) in view of Simpson et al. (US Pub. 2003/0007171 A1).

Regarding **Claim 14**, Estavillo and Simpson disclose the method of Claim 10. Estavillo further discloses the computer structure and the screen-display device together form portions of an integrated computer (see Fig. 1 (101,102), Fig.8 and paragraph [0052]).

Claims 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Estavillo et al. (US Pub. 2002/0046238 A1) in view of Simpson et al. (US Pub. 2003/0007171 A1), and in further view of Hirashima et al. (US Pub. 2002/0016841 A1).

Regarding **Claim 15**, Estavillo and Simpson disclose the method of Claim 10 but fail to expressly disclose wherein the screen display device and the printer together form portions of an

integrated printer device. Hirashima, however, discloses screen display device incorporated in a printer (see paragraph [0040]).

Estavillo, Simpson and Hirashima are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art to incorporate a printer and screen display device into one unit. The motivation would be eliminating hardware and reducing costs.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Estavillo et al. (US Pub. 2002/0046238 A1) in view of Simpson et al. (US Pub. 2003/0007171 A1).

Regarding **Claim 16**, Estavillo further discloses in association with requesting a print-preview display, (b) instructing the printer to handle related document data in a selected state of data compression and/or bit depth (see paragraph [0057], Line 11-13).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Art Unit: 2622

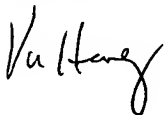
however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu B. Hang whose telephone number is (571) 272-0582. The examiner can normally be reached on Monday-Friday, 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vu Hang
Assistant Examiner



JOSEPH R. POKRZYWA
PRIMARY EXAMINER
ART DIVISION 2625

